



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD2AEG-P31-840-A-POE ALL ON_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TESTLAB] GEN from Intertek
[ISSUEDATE] 19-AUG-2020
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.64836
[LUMINAIRE] 2X2' LED TROFFER
[MORE] FROSTED ACRYLIC DIFFUSER
[LUMCAT] AMD2AEG-P31-840-A-PoE ALL ON
[LAMPCAT] HLM 80 CRI, 4000K CCT
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] INDOOR, DIRECT, OFFICE, EDUCATION
[SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6661
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	54.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6527	6522	6765
55	5419	5838	6052
65	4223	4858	4005
75	3140	3129	2325
85	2017	1539	1242

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	2903.278	2903.278	2903.278	2903.278	2903.278
2.5	2901.483	2896.098	2893.613	2899.964	2903.416
5.0	2893.475	2886.571	2881.324	2882.981	2886.294
7.5	2875.938	2865.859	2858.678	2856.745	2853.017
10.0	2848.460	2836.862	2823.330	2818.221	2813.940
12.5	2811.179	2799.028	2781.215	2769.893	2760.917
15.0	2762.298	2749.319	2727.364	2711.485	2700.300
17.5	2703.890	2687.597	2663.295	2645.344	2632.503
20.0	2634.712	2617.314	2589.698	2570.228	2555.454
22.5	2556.006	2536.537	2508.092	2489.037	2475.091
25.0	2470.534	2447.751	2416.683	2400.113	2387.686
27.5	2379.263	2353.580	2322.374	2310.361	2301.248
30.0	2284.126	2257.338	2227.375	2218.400	2212.600
32.5	2182.913	2155.849	2128.509	2125.610	2121.743
35.0	2073.691	2048.561	2025.363	2031.025	2030.472
37.5	1957.152	1935.059	1917.661	1929.397	1933.402
40.0	1836.469	1817.000	1805.953	1825.699	1834.536
42.5	1708.883	1694.385	1691.623	1720.758	1736.913
45.0	1577.292	1567.765	1576.050	1615.264	1634.596
47.5	1446.116	1445.149	1461.029	1510.738	1532.692
50.0	1315.078	1323.777	1351.669	1408.420	1422.642
52.5	1187.077	1204.613	1246.590	1301.408	1309.002
55.0	1062.114	1088.764	1144.272	1184.730	1186.249
57.5	941.570	975.124	1042.093	1057.558	1023.728
60.0	824.616	864.798	934.804	900.146	869.630
62.5	712.909	759.166	824.892	761.928	718.985
65.0	609.901	661.405	701.586	626.333	578.419
67.5	514.488	568.753	579.247	497.089	456.356
70.0	428.187	483.005	470.026	387.592	353.762
72.5	348.791	399.605	367.294	295.216	270.223
75.0	277.680	316.618	276.713	222.171	205.602
77.5	212.782	237.636	199.802	164.592	154.650
80.0	155.340	168.320	138.080	118.059	112.536
82.5	104.527	106.598	87.405	77.049	72.492
85.0	60.065	55.508	45.843	40.319	37.006
87.5	21.126	17.536	16.017	16.293	16.155
90.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000

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135.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.138	0.000	0.138
152.5	0.000	0.000	0.138	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
157.5	0.276	0.138	0.000	0.552	0.138
160.0	0.138	0.000	0.414	0.276	0.138
162.5	0.552	0.138	0.138	0.138	0.414
165.0	0.138	0.138	0.414	0.276	0.552
167.5	0.552	0.138	0.276	0.276	0.138
170.0	0.138	0.138	0.414	0.276	0.276
172.5	0.000	0.138	0.552	0.690	0.000
175.0	0.414	0.000	0.276	0.414	0.552
177.5	0.414	0.276	0.414	0.414	0.138
180.0	0.414	0.414	0.414	0.414	0.414

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1041.93	N.A.	15.60
0-30	2157.55	N.A.	32.40
0-40	3431.01	N.A.	51.50
0-60	5669.78	N.A.	85.10
0-80	6600.14	N.A.	99.10
0-90	6661.14	N.A.	100.00
10-90	6387.58	N.A.	95.90
20-40	2389.08	N.A.	35.90
20-50	3617.02	N.A.	54.30
40-70	2882.02	N.A.	43.30
60-80	930.35	N.A.	14.00
70-80	287.11	N.A.	4.30
80-90	61.01	N.A.	0.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.15	N.A.	0.00
110-180	0.15	N.A.	0.00
0-180	6661.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	273.56
10-20	768.37
20-30	1115.62
30-40	1273.46
40-50	1227.94
50-60	1010.84
60-70	643.24
70-80	287.11
80-90	61.01
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.04
160-170	0.07
170-180	0.03

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	116	116	116	116	113	113	113	113	108	108	108	104	104	104	100	100	100	98
1	107	103	99	96	105	101	97	94	97	94	91	93	91	89	89	88	86	84
2	98	91	85	80	96	89	84	79	86	81	77	83	79	75	80	76	74	72
3	90	81	73	67	88	79	72	67	76	70	66	74	69	65	71	67	63	61
4	83	72	64	58	81	71	63	57	68	62	57	66	60	56	64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	50	60	54	49	58	53	49	47
6	71	59	50	44	69	58	50	44	56	49	44	54	48	43	53	47	43	41
7	66	53	45	39	64	53	45	39	51	44	39	50	43	39	48	43	38	37
8	62	49	41	35	60	48	41	35	47	40	35	46	39	35	45	39	35	33
9	58	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	31	30
10	54	42	34	29	53	41	34	29	40	34	29	39	33	29	38	33	29	27

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	17.7	19.3	18.1	19.6	19.9	18.3	19.8	18.6	20.1	20.4
	3H	19.1	20.5	19.4	20.8	21.1	19.1	20.5	19.5	20.8	21.2
	4H	19.5	20.8	19.9	21.2	21.5	19.3	20.6	19.7	21.0	21.4
	6H	19.8	21.0	20.2	21.4	21.8	19.5	20.7	19.9	21.0	21.4
	8H	19.9	21.0	20.3	21.4	21.8	19.5	20.6	19.9	21.0	21.4
	12H	19.9	21.0	20.3	21.4	21.8	19.5	20.6	19.9	21.0	21.4

UGR Viewed Endwise

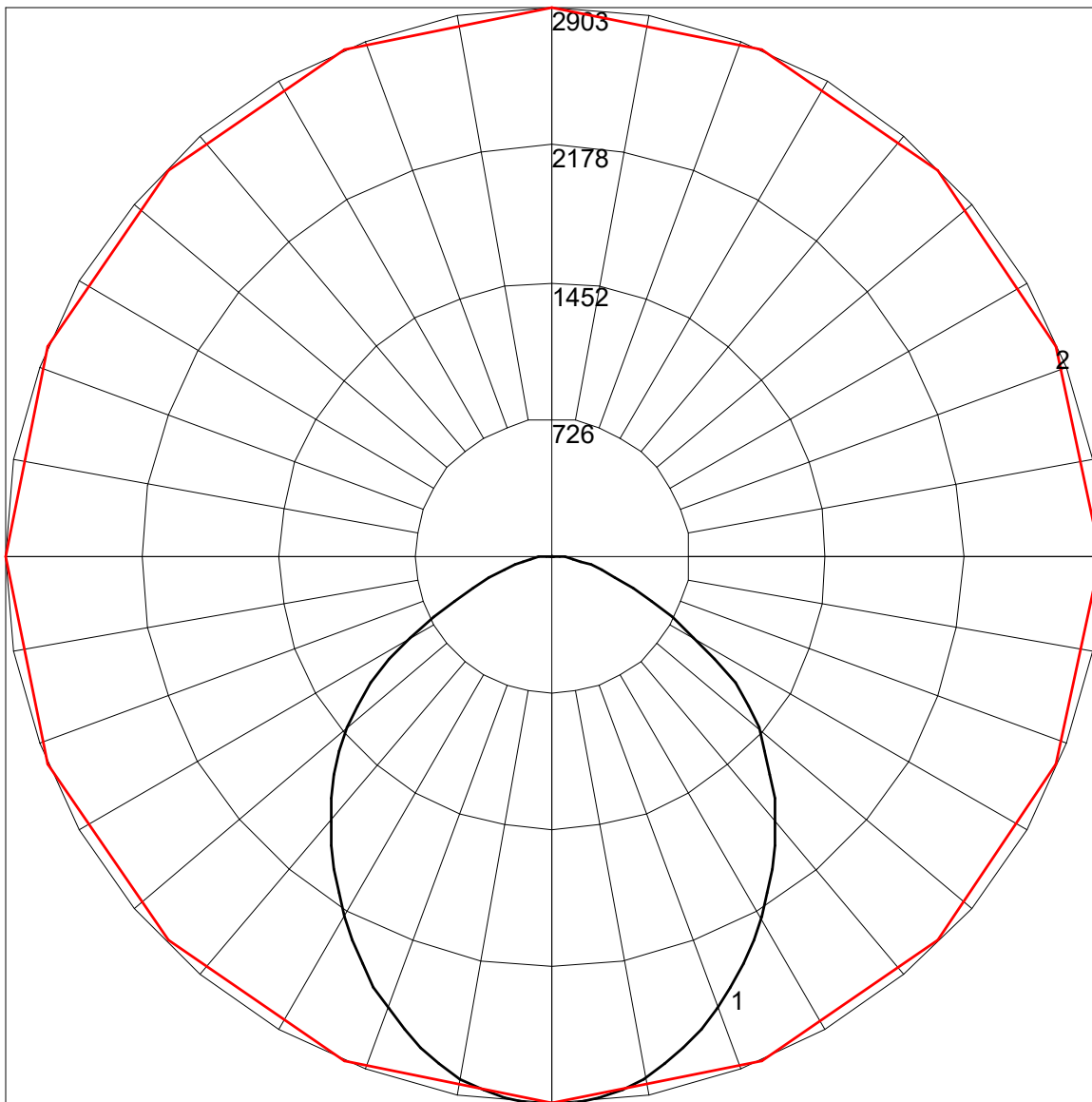
4H	2H	18.3	19.6	18.7	20.0	20.4	18.8	20.1	19.2	20.4	20.8
	3H	19.9	20.9	20.3	21.3	21.8	19.8	20.9	20.2	21.3	21.7
	4H	20.4	21.4	20.9	21.8	22.3	20.1	21.1	20.5	21.5	21.9
	6H	20.8	21.7	21.3	22.1	22.6	20.3	21.1	20.7	21.6	22.0
	8H	20.9	21.7	21.4	22.2	22.6	20.3	21.1	20.8	21.6	22.0
	12H	21.0	21.7	21.5	22.2	22.6	20.3	21.1	20.8	21.5	22.0

8H	4H	20.6	21.4	21.0	21.8	22.3	20.3	21.1	20.7	21.5	22.0
	6H	21.0	21.7	21.5	22.2	22.7	20.5	21.2	21.0	21.7	22.1
	8H	21.2	21.8	21.7	22.3	22.8	20.6	21.2	21.1	21.7	22.2
	12H	21.3	21.8	21.8	22.3	22.9	20.6	21.2	21.2	21.7	22.2

12H	4H	20.6	21.3	21.1	21.8	22.2	20.3	21.0	20.8	21.5	21.9
	6H	21.1	21.6	21.6	22.1	22.7	20.6	21.1	21.1	21.6	22.1
	8H	21.2	21.8	21.7	22.2	22.8	20.7	21.2	21.2	21.7	22.2

Maximum UGR = 22.9

POLAR GRAPH



Maximum Candela = 2903.416 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)